
CLIENT: Department of Toxic Substances Control
Project: 06AT0270
Lab Order: 093579
Contract No: 05-T2888

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
093579-001A	WFCONTROL- Comp/AQ02186	Wood	10/26/2006	8/8/2007	8/16/2007

CLIENT: Department of Toxic Substances Control
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CASE NARRATIVE

Sample for Fish Bioassay was subcontracted to Associated Laboratory with ELAP Cert.#1338.

DRAFT

DRAFT

LABORATORY WORKSHEET

Lab No. 195233

Date Received: 8/8/07

Date Reported: 8/13/07

Bioassay Type

Static ☒ Continuous ☐Screening ☒ Definitive ☐

FAXED

AUG 15 2007

Report To: Adv Tech Labs

(92)

822814

Sample Description Solid 093579 - 001A (WF Control - Comp AQ0218)

Test Organism Pimephales Promelas Source Thomas Fish Farm Acclimatization 23 Days @ 20 deg. C
 Aquarium Volume 10 liters Aquarium Depth 5 inches No. Fish/Concentration 10 Total Chlorine Residual N/D Sample Conductivity 260 μ mhos/cm
 Organism Characteristics Length (mm) Min 35 mm Max 45 mm Avg 40 mm Weight (gm) Min 0.46 gm Max 0.66 gm Avg 0.55 gm
 Dilution Water Source Soft Water Hardness - Initial 45 mg/l Final 85 mg/l Alkalinity - Initial 32 mg/l Final 50 mg/l
 Aeration Air Control Hardness Initial: 40 mg/l Final: 45 mg/l Control Alkalinity Initial: 30 mg/l Final: 35 mg/l Control Conductivity 200 μ mhos/cm

Bioassay Conditions	Date	Control		Dilution											
		No.	%	750		500		250		DUP 750		500		250	
Organisms Surviving	8/9	10	100	10	100	10	100	10	100	10	100	10	100	10	100
	8/10	10	100	10	100	10	100	10	100	10	100	10	100	10	100
	8/11	10	100	9	90	10	100	10	100	10	100	10	100	10	100
	8/12	10	100	9	90	10	100	10	100	9	90	10	100	10	100
	8/13	10	100	9	90	10	100	10	100	9	90	10	100	10	100
Dissolved Oxygen mg/l	11:30	6.6		6.2		6.2		6.2		6.2		6.2		6.2	
	15:00	6.9		7.2		7.0		7.3		7.2		7.0		7.3	
	10:20	7.1		7.4		7.2		7.0		7.4		7.2		7.0	
	11:10	7.3		7.0		7.1		7.2		7.0		7.1		7.2	
pH	14:20	7.0		7.3		7.5		7.1		7.3		7.5		7.1	
	Start	7.0	19.8°C	7.3	19.8°C	7.5	19.8°C	7.6	19.8°C	7.3	19.8°C	7.5	19.8°C	7.6	19.8°C
	24 HR	7.1	20.0°C	7.2	20.0°C	7.4	20.0°C	7.5	20.0°C	7.2	20.0°C	7.4	20.0°C	7.5	20.0°C
	48 HR	7.1	20.2°C	7.1	20.2°C	7.3	20.2°C	7.4	20.2°C	7.1	20.2°C	7.3	20.2°C	7.4	20.2°C
	72 HR	7.2	20.0°C	7.0	20.0°C	7.2	20.0°C	7.3	20.0°C	7.0	20.0°C	7.2	20.0°C	7.3	20.0°C
Temp	96 HR	7.2	19.8°C	7.0	19.8°C	7.2	19.8°C	7.3	19.8°C	7.0	19.8°C	7.2	19.8°C	7.3	19.8°C

Results - LC₅₀ =

> 750 mg/l

> 750 mg/l

% Survival

N/A

Toxicity Units T.U.

A

Observation/Remarks

TD

Method of Calculations

N/A

95% Confidence Limits

LC₅₀ Method

Laboratory Supervisor

Make Photocopies for Your File

AUTHORIZATION REQUEST FORM (ARF)

PART A: (By Requestor - PLEASE PRINT)

Requestor's Name Martin Snider TAT Level: ☐ 1* ☒ 2 ☐ 3 ☐ 4
Region 02-Berkeley Email msnider @dtsc.ca.gov Phone (510) 849-5258
Back-up Requestor ☐ Tang HWMP-Sacramento HQ Fax ()
Site Name UCCE-Richmone Field Station c/o Steve Quarles Phone ()
AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis

Number of Samples/Type
Solid Liquid Water Other

% Dry Solids (ECL730-S)
Acidity (305-1)
Alkalinity (310-1)
Anions by IC (9056)
Chromium VI(Cr⁶⁺) by Colorimetric (7196A)
Chromium VI(Cr⁶⁺) in Water by IC (7199)
Cyanides for Wastes, Leachates (9010B)
Hardness (130-2)
Mercury(Hg) in (Semi)Solid Waste (7471A)
Mercury(Hg) in Liquid Waste (7470A)
Metals Scan (6010B, for As, Ba, Cu, Pb, etc)
Metals Scan (for Drinking water, 6020A)
OrganoLead in Waste (ECL938-M)
Particle Size (ECL740-S)
Perchlorate for Soil, Sludge (ECL955-M)
Perchlorate for Water (314-0)
pH (9040B, 9045C)
Total Dissolved Solids (160-1)
WET(ECL910-S) ☐ Only if necessary ☒ Do it regardless
(others, type in)

TCLP Analysis**

Metals ☐ Only if necessary ☐ Do it regardless
Mercury ☐ Only if necessary ☐ Do it regardless
Volatiles ☐ Only if necessary ☐ Do it regardless
Semivolatiles ☐ Only if necessary ☐ Do it regardless
(others, type in)

Organic Analysis

Number of Samples/Type
Solid Liquid Water Other

GRO (Gasoline, 8015B)
DRO (Diesel) only (ECL816-M)
Motor Oil only (ECL816-M)
DRO (Diesel) & Motor Oil (ECL816-M)
Ethylene Glycol (ECL772-M)
PBDEs (ECL750-M)
PCBs (8082)
Pesticides - Chlorinated (8081A)
Pesticides - Organophosphate (8141A)
1,4-Dioxane (ECL830-S)
GC/MS Semivolatiles (8270C)
Volatiles (8260B)
HPLC Carbonyl Compounds (8315A)
Explosives (8330)
PAHs (8310)
Dioxins/Furans by HRGC/HRMS (ECL880-M)
Flash Point (1020A)
n-Hexane Extractables/TPH (1664)
TXO-Total Halogens in Oil (ECL792-S)
(others, type in)

Other Analysis

Fish Bioassay (Title 22) 1
Congener PCBs (ECL-CG-PCB)
Congener PBDEs (ECL-CG-PBDE)
(others, type in)
(others, type in)

Analysis Objective:

Waste Characterization

Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
STLC, TTLC, T22 LC50

Other Comments: White Fir control

Expected Date of Sample Arrival at Lab 10/26/06 (mm/dd/yy)

PART C: (By SMO - ECL)

Authorization Number (AN)
Lab to Receive Sample(s)

0 6 A T 0 2 7 0

Sample Management Officer (SMO)

[Signature]

Advanced Technology Labs
3275 Walnut Avenue
Signal Hill, CA 90807
Att: Diane Galvin (562)989-4045

ARF's Revision No. 8/1

Initials: MS Date: 8/06/07
(new exp. date)

ARF's Revision No.

Initials: Date:

☐ Check box if cancelled

Initials: Date:

Today's Date 10/08/07 (mm/dd/yy)

Expiration Date

10/18/07 08/18/07 (mm/dd/yy)

TAT Level: *1 = 10-15 days (requires unit chief's signature on SAR)
**TCLP: If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.

2 = 16 - 30 days

3 = 31 - 45 days

4 = when possible
ECL01 (REV 10/06)